S DOCKET NUMBER F COMMERCE PATENT AND TRADEMARK OFFICE FORM PTO-1390 (Modified) (REV 11-98) 1960572615 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 29 October 1999 (29.10.99) 30 October 1998 (30.10.98) PCT/US99/25437 TITLE OF INVENTION HIGH FIDELITY THERMOSTABLE LIGASE AND USES THEREOF APPLICANT(S) FOR DO/EO/US BARANY, Francis, CAO, Weiguo, and TONG, Jie Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 1. Ø 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 3. X A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 4. \bowtie A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) 5. \boxtimes is transmitted herewith (required only if not transmitted by the International Bureau). b. 🛛 has been transmitted by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). A translation of the International Application into English (35 U.S.C. 371(c)(2)). A copy of the International Search Report (PCT/ISA/210). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) are transmitted herewith (required only if not transmitted by the International Bureau). b. 🗆 have been transmitted by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. c. 🗆 4 🔯 have not been made and will not be made. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. A copy of the International Preliminary Examination Report (PCT/IPEA/409). \boxtimes A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 12. (35 U.S.C. 371 (c)(5)). Items 13 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 13. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A FIRST preliminary amendment. 15. A SECOND or SUBSEQUENT preliminary amendment. 16. 17. A substitute specification. A change of power of attorney and/or address letter. 18. 19. 凶 Certificate of Mailing by Express Mail 20. \boxtimes Other items or information: *Applicants claim small entity status.

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,	U.S. APPLICATION	NO. (IF KNOWN, SELECTIFE FR	INTERNATIONAL APPLICATION NO. PCT/US99/25437			ATTORNEY'S DOCKET NUMBER 19603/2615		
	21. The fol	llowing fees are submitted:.				CALCULATION	NS PTO USE ONLY	
	BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):							
	Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2) paid to USPTO							
	and International Search Report not prepared by the EPO or JPO							
	USPTO but Internation Search Report prepared by the EPO or JPO							
	but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00							
	☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4)							
	☐ Internationa and all clain	and all claims satisfied provisions of PCT Article 33(1)-(4)						
			ER APPROPRIATE BASIC FEE AMOUNT =			\$860.00		
	urcharge of \$130.00 for furnishing the oath or declaration later than on the earliest claimed priority date (37 CFR 1.492 (e)). \Box 30					0	\$0.00	
	CLAIMS	NUMBER FILED	NUMBER EXT	RATE				
	Total claims	47 - 20 =	27		x \$18.00 x \$80.00		\$486.00	<u> </u>
	Independent claims		4	<u>.</u>	x \$80.0	<i>1</i> 0	\$320.00 \$0.00	
		nt Claims (check if applicable). TOTAL OF	ABOVE CALO	CULAT		=	\$1,666.00	
	Reduction of 1/2 fo	r filing by small entity, if applica	ble. Verified Small E			×		
	must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (ch	eck if applicable).		·		\$833.00 \$833.00	
		SUBTOTAL =						-
1. n	Processing fee of \$1 months from the ear	cessing fee of \$130.00 for furnishing the English translation later than \square 20 \square 30 nths from the earliest claimed priority date (37 CFR 1.492 (f)).					\$0.00	
	TOTAL NATIONAL FEE =						\$833.00	
#	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).						\$0.00	
	TOTAL FEES ENCLOSED =						\$833.00	
							Amount to be: refunded	\$.
			,		•		charged	\$
A check in the amount of \$833.00 to cover the above fees is enclosed.								
	☐ Please charge my Deposit Account No. in the amount of to cover the above fees.							
	A duplicate copy of this sheet is enclosed.							
	The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 14-1138 A duplicate copy of this sheet is enclosed. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR							
1.137(a) or (b)) must be filed and granted to restore the application to pending status.								. ~
SEND ALL CORRESPONDENCE TO: GOLDMAN, Michael L. Nixon Peabody LLP								
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	Clinton Square, P		Georgia Evan			ns		
	Rochester, New York 14603 United States of America				NAME			
	44,597							
			REGISTRATIO			N NUMBER		
				Paril			26.2001	
				DATE			<u> </u>	

EXPRESS MAIL CERTIFICATE

DOCKET NO.:

19603/2615

APPLICANT(S): Barany et al.

TITLE: HIGH FIDELITY THERMOSTABLE LIGASE AND USES THEREOF

Certificate is attached to the Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) of the above-named application.

"EXPRESS MAIL" NUMBER: EL710757200US

DATE OF DEPOSIT: April 26, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Box PCT, Washington, D.C. 20231.

Wendy L. Harrold
(Typed or printed name of person mailing paper or fee)

(Signature of person mailing paper or fee)